

In the Claims:

Please amend the claims as follows:

1-18 (cancelled)

19. (currently amended) An installation for transmission of electric power, comprising:  
two switchgear units;

a high-voltage ac voltage line extending between the switchgear units, the ac voltage line comprising at least one extruded cable including an inner electric conductor, an insulating layer of a solid material surrounding said conductor, and an outer screen layer located at ground potential; and

at least one inductor located along the cable between the switchgear units and integrated into the at least one extruded cable, the at least one inductor being connected between the conductor of the at least one extruded cable and ground; and ground, ~~the at least one inductor being operative to generate reactive current to compensate for capacitive current produced in the at least one extruded cable~~

a casing through which the cable is lead, the casing being located at ground potential, and the at least one inductor being arranged in the casing, wherein a first end of the at least one inductor is connected to the electric conductor and a second end of the at least one inductor is connected to the casing.

20. (previously presented) The installation according to claim 19, wherein the

switchgear units are located at a large distance from each other.

21. (previously presented) The installation according to claim 19, wherein the installation comprises a plurality of inductors distributed along the ac voltage line.

22. (previously presented) The installation according to claim 21, wherein the plurality of inductors are arranged at considerable distances from each other.

23. (previously presented) The installation according to claim 21, wherein said inductors are essentially uniformly distributed along the ac voltage line.

24. (cancelled)

25. (previously presented) The installation according to claim 19, wherein the insulating layer comprises cross-linked polyethylene.

26. (previously presented) The installation according to claim 19, wherein the cable further comprises an inner layer arranged nearest the conductor and having an electrical conductivity that is lower than an electrical conductivity of the conductor but sufficient to cause the inner layer to act in a potential-equalizing manner to equalize the electric field externally of the inner layer, and wherein the screen layer has an electrical conductivity that is higher than an electrical conductivity of the insulating layer to render the screen layer capable of functioning in a potential-equalizing manner, through connection to ground, and to essentially enclose an

electric field that arises inside the screen layer as a result of the electric conductor.

27. (previously presented) The installation according to claim 19, wherein the at least one inductor is completely or partially buried in the ground.

28. (previously presented) The installation according to claim 19, wherein the cable in the vicinity of the at least one inductor is divided into a cable part on both sides of a point of connection to the cable, the installation further comprising:

connecting means for connection of the at least one inductor to the cable, the connecting means comprising three connection devices for connection of an end of an electric conductor of the cable parts to two of the connection devices and an end of the at least one inductor to a third of the connection devices; and

a member for electrically interconnecting the three connection devices.

29. (currently amended) The installation according to claim 19, wherein the at least one inductor comprises a winding ~~arranged in a casing located at ground potential, said winding being connected by a first end to the electric conductor of the cable and by a second end to the casing.~~

30. (previously presented) The installation according to claim 19, wherein the at least one inductor comprises an auxiliary winding for delivering auxiliary energy to a consumer.

31. (previously presented) The installation according to claim 30, wherein the auxiliary

winding comprises equipment for operation of parts of the installation and communication between the parts and/or between the installation and external equipment.

32. (previously presented) The installation according to claim 19, further comprising:  
an optical fiber laid along the cable or integrated into the cable, for use of a device for at least one of protection of the installation, commercial communication within the installation or communication with the surroundings.

33. (previously presented) The installation according to claim 19, wherein the ac voltage line exhibits three phases and one of the cables for each phase.

34. (previously presented) The installation according to claim 33, wherein the at least one inductor comprises a three-phase inductor with the cables of the respective phase connected to a separate inductor winding in a respective phase leg of a common core.

35. (previously presented) The installation according to claim 19, wherein the at least one cable is designed to have a system voltage of between 50 kV and 500 kV between the conductor and the screen layer.

36. (previously presented) The installation according to claim 19, wherein the at least one cable is designed to have a system voltage of between 30 kV and 300 kV between the conductor and the screen layer.

37. (previously presented) The installation according to claim 19, wherein the installation is designed for a maximum transmissible power, via the ac voltage line, of 50 MW-600 MW.

38. (previously presented) The installation according to claim 19, wherein the distance between said switchgear units exceeds 25 km.

39. (previously presented) The installation according to claim 19, wherein the installation includes at least two inductors, wherein a distance between an inductor located nearest a switchgear unit and the switchgear unit and between adjacent inductors is 5-40 km.

40. (previously presented) The installation according to claim 19, wherein the installation includes at least two inductors, wherein a distance between an inductor located nearest a switchgear unit and the switchgear unit and between adjacent inductors is 10-25 km.

41. (previously presented) The installation according to claim 19, wherein said inductor is dimensioned for a reactive power of 5-30 MVAR.

42. (previously presented) The installation according to claim 19, wherein the installation includes at least two inductors, wherein dimensioning of the inductors and a distance between adjacent inductors and between one of the inductors and a switchgear unit, respectively, are adapted to a magnitude of a voltage that the cable is intended to carry and a shunt capacitance/unit of length of the cable to essentially eliminate capacitive currents in the cable.